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ABSTRACT OF THE DISCLOSURE

gas generation modules can provide a flexible platform for scaling to meet increasing demands within a facility.

During normal operation, the system may be designed to have one gas generation module in standby mode while the others are in active mode. Adding or removing gas generation cells is relatively straightforward and does not require redesigning the system. The system can be designed with a level of redundancy that best fits the user's needs to allow for continuous uninterruptible operations. The system can be safer to use compared to other systems due to any one or more of electrolytic cell-rectifier pairs, individually exhausted cabinets, organization fluid flow paths and pressures, and the like.